

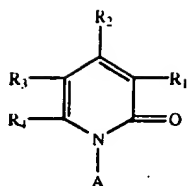
- 5-Methyl-1-(1'-naphthyl)-2-(1H) pyridone
 3-Methyl-1-phenyl-2-(1H) pyridone
 6-Methyl-1-phenyl-2-(1H) pyridone
 5 3,6-Dimethyl-1-phenyl-2-(1H) pyridone
 5-Methyl-1-(2'-thienyl)-2-(1H) pyridone
 1-(2'-Furyl)-5-methyl-2-(1H) pyridone
 5-Methyl-1-(5'-quinolyl)-2-(1H) pyridone
 10 5-Methyl-1-(4'-pyridyl)-2-(1H) pyridone
 5-Methyl-1-(3'-pyridyl)-2-(1H) pyridone
 5-Methyl-1-(2'-pyridyl)-2-(1H) pyridone
 5-Methyl-1-(2'-quinolyl)-2-(1H) pyridone
 15 5-Methyl-1-(4'-quinolyl)-2-(1H) pyridone
 5-Methyl-1-(2'-thiazolyl)-2-(1H) pyridone
 1-(2'-Imidazolyl)-5-methyl-2-(1H) pyridone
 5-Ethyl-1-phenyl-2-(1H) pyridone
 20 3-Ethyl-1-phenyl-2-(1H) pyridone
 1-Phenyl-2-(1H) pyridone
 1-(4'-Nitrophenyl)-2-(1H) pyridone
 5-Methyl-3-phenyl-1-(2'-thienyl)-2-(1H) pyridone
 25 5-Methyl-1-phenyl-3-(1H) pyridone
 5-Methyl-1-(4'-methoxyphenyl)-3-(1H) pyridone
 5-Methyl-1-p-tolyl-3-(1H) pyridone
 1-(4'-Chlorophenyl)-5-methyl-3-(1H) pyridone
 30 5-Methyl-1-(2'-naphthyl)-3-(1H) pyridone
 4-Methyl-1-phenyl-3-(1H) pyridone
 6-Methyl-1-phenyl-3-(1H) pyridone
 5-Methyl-1-(2'-thienyl)-3-(1H) pyridone
 35 1-(2'-Furyl)-5-methyl-3-(1H) pyridone
 5-Methyl-1-(5'-quinolyl)-3-(1H) pyridone
 5-Methyl-1-(3'-pyridyl)-3-(1H) pyridone
 5-Methyl-1-(2'-pyridyl)-3-(1H) pyridone
 40 5-Methyl-1-(2'-quinolyl)-3-(1H) pyridone
 5-Ethyl-1-phenyl-3-(1H) pyridone
 1-Phenyl-3-(1H) pyridone.

It will thus be seen that the objects set forth above,
 45 among those elucidated in, or made apparent from, the
 preceding description, are efficiently attained and, since
 certain changes may be made in the above compositions and
 methods without departing from the scope of the invention,
 it is intended that all matter contained in the foregoing
 50 disclosure shall be interpreted as illustrative only and not in
 a limiting sense.

It is also to be understood that the following claims are
 intended to cover all of the generic and specific features of
 the invention herein described and all statements of the
 55 scope of the invention which, as a matter of language, might
 be said to fall therebetween.

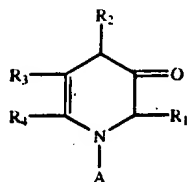
I claim:

1. A method of treating lymphomas, leukemias, and/or
 60 leiomyomas in a laboratory animal or a human, comprising:
 administering to said laboratory animal or said human an
 effective dose of a composition including one or more
 pharmaceutical substances selected from the group consist-
 ing of N-substituted 2-(1H) pyridones, N-substituted 3-(1)
 65 pyridones, and pharmaceutically acceptable salts thereof,
 wherein said 2-(1H) pyridones have the following general
 structural formula:



where: R1 is selected from the group consisting of (1) an alkyl group, with R3 hydrogen, and (2) hydrogen, with R3 consisting of an alkyl group; A is an aryl group; and R2 and R4 are hydrogen;

and wherein said 3-(1H) pyridones have the following general structural formula:



where: R2 is selected from the group consisting of (1) an alkyl group, with R3 hydrogen, and (2) hydrogen, with R3 consisting of an alkyl group; A is an aryl group; and R1 and R4 are hydrogen.

2. A method, as defined in claim 1, wherein: said composition is administered orally or parenterally to said laboratory animal at a rate of from about 250 to about 750 mg/kg of body weight per day.

3. A method, as defined in claim 1, wherein: said composition is administered orally or parenterally to a human at a rate of from about 20 to about 60 mg/kg of body weight per day.

4. A method of treating lymphomas, leukemias, and/or leiomyomas in a laboratory animal or a human, comprising: administering to said laboratory animal or said human an

effective dose of a composition including one or more pharmaceutical substances selected from the group consisting of N-substituted 2-(1H) pyridones, N-substituted 3-(1H) pyridones, and pharmaceutically acceptable salts thereof, said N-substituted 2-(1H) pyridones and said N-substituted 3-(1H) pyridones being selected from the group consisting of: 5-methyl-1-phenyl-2-(1H) pyridone, 5-Methyl-1-(3-nitrophenyl-2)-(1H) pyridone, 5-Methyl-1-(4'-methoxyphenyl)-2-(1H) pyridone, 5-Methyl-1-p-tolyl-2-(1H) pyridone, 5-Methyl-1-(3'-trifluoromethylphenyl)-2-(1H) pyridone, 1-(4'-Chlorophenyl)-5-methyl-2-(1H) pyridone, 5-Methyl-1-(2'-naphthyl)-2-(1H) pyridone, 5-Methyl-1-(1'-naphthyl)-2-(1H) pyridone, 3-Methyl-1-phenyl-2-(1H) pyridone, 6-Methyl-1-phenyl-2-(1H) pyridone, 3,6-Dimethyl-1-phenyl-2-(1H) pyridone, 5-Methyl-1-(2'-thienyl)-2-(1H) pyridone, 1-(2'-Furyl)-5-methyl-2-(1H) pyridone, 5-Methyl-1-(5'-quinolyl)-2-(1H) pyridone, 5-Methyl-1-(4'-pyridyl)-2-(1H) pyridone, 5-Methyl-1-(3'-pyridyl)-2-(1H) pyridone, 5-Methyl-1-(2'-pyridyl)-2-(1H) pyridone, 5-Methyl-1-(2'-quinolyl)-2-(1H) pyridone, 5-Methyl-1-(4'-quinolyl)-2-(1H) pyridone, 5-Methyl-1-(2'-thiazolyl)-2-(1H) pyridone, 1-(2'-Imidazolyl)-5-methyl-2-(1H) pyridone, 5-Ethyl-1-phenyl-2-(1H) pyridone, 3-Ethyl-1-phenyl-2-(1H) pyridone, 1-Phenyl-2-(1H) pyridone, 1-(4'-Nitrophenyl)-2-(1H) pyridone, 5-Methyl-3-phenyl-1-(2'-thienyl)-2-(1H) pyridone, 5-Methyl-1-phenyl-3-(1H) pyridone, 5-Methyl-1-(4'-methoxyphenyl)-3-(1H) pyridone, 5-Methyl-1-p-tolyl-3-(1H) pyridone, 1-(4'-Chlorophenyl)-5-methyl-3-(1H) pyridone, 5-Methyl-1-(2'-naphthyl)-3-(1H) pyridone, 4-Methyl-1-phenyl-3-(1H) pyridone, 6-Methyl-1-phenyl-3-(1H) pyridone, 5-Methyl-1-(2'-thienyl)-3-(1H) pyridone, 1-(2'-Furyl)-5-methyl-3-(1H) pyridone, 5-Methyl-1-(5'-quinolyl)-3-(1H) pyridone, 5-Methyl-1-(3'-pyridyl)-3-(1H) pyridone, 5-Methyl-1-(2'-pyridyl)-3-(1H) pyridone, 5-Methyl-1-(2'-quinolyl)-3-(1H) pyridone, 5-Ethyl-1-phenyl-3-(1H) pyridone, and 1-Phenyl-3-(1H) pyridone.

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